

SERVICE MANUAL



MODELS "ROYAL D7000 AND ROYAL D7000-1"

"TRANSOCEANIC"®
CHASSIS 500MDR70
SOLID STATE AC/BATTERY PORTABLE
LW/AM/FM/SW/WB RADIO

ZENITH RADIO CORPORATION

1900 N. AUSTIN AVENUE

CHICAGO, ILLINOIS 60639

PRODUCT SAFETY SERVICING GUIDELINES FOR ALL AUDIO AMPLIFIERS AND RADIO RECEIVERS

CAUTION: No modification of the circuit should be attempted. Service work should be performed only after you are thoroughly familiar with all of the following precautions. To do otherwise increases the risk of potential hazards and injury to the user.

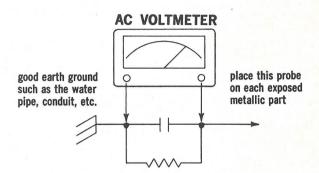
SAFETY CHECKS

SUBJECT: Fire & Shock Hazard

- 1. Be sure that all components are positioned in such a way to avoid possibility of adjacent components shorts. This is especially important on those chassis which are transported to and from the repair shop.
- 2. Always replace all protective devices such as insulators and barriers after working on a set.
- 3. Check for frayed insulation on wires including the AC cord.
- 4. Check across-the-line components for damage and replace if necessary.
- 5. After re-assembly of the set always perform an AC leakage test on the exposed metallic parts of the cabinet such as the knobs, antenna terminals, etc. to be sure the set is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this test. Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following

manner: Connect a 1500 ohm 10 watt resistor, paralleled by .15 mfd. AC type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination 1500 ohm resistor and .15 mfd. capacitor. Reverse the AC plug on the set and repeat AC voltage measurements again for each exposed metallic part. Voltage measured must not exceed .3 volts RMS. This corresponds to 0.2 milliamp AC.

Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



SPECIFICATIONS

Power
Supply - - - - AC - - - - 115/230V, 50/60 Hertz
Battery - - 9, Type Z4NL, 1-1/2 V, "D" Cells
(1 cell powers dial and chart lights).

Current Drain—No signal condition with volume control at min.

Approximately 27 milliamperes

Frequency							
Ranges	Band	P	Vlete	rs	M	legal	nertz
	VHF	1.83	to	1. 86	161	to	164
	FM	3.4	to	2.8	88	to	108
	LW	2000	to	750	. 15	to	. 4
	BC	555	to	188	. 54	to	1.6
	SW 1	188	to	85	1.6	to	3.5
	SW 2	85	to	33	3.5	to	9.0
	31	31			9.4	to	10.1
	25	25			11.4	to	12.3
	19	19			14.6	to	15.8
	16	16			17.1	to	18.5
	13	13			20.6	to	22.4
Intermediate							
Frequency	FM -				10.7 N	ЛHz	
	AM -				455 k	(Hz	

Sensitivity

(Approx.) - - - Referenced to .05 watt output above noise. All bands measured with tone control at maximum and Normal/Sharp switch in NORMAL, and Manual Gain in NORMAL position.

VHF	(16.0 KHz deviation) 2.0	microvolts
FM	(22.5 KHz deviation) 2.0	microvolts
LW	75	microvolts/m
BC	20	microvolts/m
SW1	3.0	microvolts
SW2	2.5	microvolts

31	 1.0	microvolts
25	 2.0	microvolts
19	 2.0	microvolts
16	 2.0	microvolts
13	 2.0	microvolts

Antennas Waverod (in top of cabinet back — all except BC/LW

BC/LW Wavemagnet® (in cabinet) — BC/LW only External - - - All except VHF

CAUTION:

- When adjustments are made on these chassis, a line isolation transformer (120-V input to 120-V output) is recommended in order to avoid a shock hazard. If an isolation transformer is not available, check the AC voltage between chassis and bench ground; and if there is any indication of line voltage, reverse the plug before handling the set.
- 2. Do not operate without proper speaker load.
- 3. Do not short out the audio output when power is connected.
- 4. If the receiver is not to be operated on batteries for several weeks, the batteries should be removed.
- 5. Matched transistors are used in the output stage. Should one transistor fail, both transistors must be replaced, since they will not perform properly unless matched.
- If a power transistor fails be certain to replace the emitter resistors. Also be certain to check the condition of the rectifiers, and related components.

CIRCUIT DESCRIPTION

Model RD7000-1 is basically identical to RD7000 except for the addition of a thermal circuit breaker which will provide protection should the receiver be connected to an incorrect power source, or for any other condition which could possibly damage the power supply. When the circuit breaker "opens", it will cut off all power to the receiver for approximately 15 minutes. After this time it will automatically reset, restoring power to the receiver. If the circuit breaker cuts out again within a few minutes, check the voltage selector switch (See Figure 4, Item 29, in the Operating Guide) to be certain that it is set to the correct voltage position. In the event this fails to correct the condition, contact a qualified service technician.

Separate tuners are used on the FM (88-108 MHz) and the VHF Weather Band (161-164 MHz). The FM tuner consists of a RF amplifier and an Autodyne Converter operating in common base circuits. CR1 is the AFC diode. On the VHF Band the RF and Oscillator stages operate in common base circuits, while the Mixer is a common emitter circuit. The VHF VFO operates 10.7 MHz below the reception frequency. AFC is not applied to the VHF tuner. AGC for both tuners is obtained from the collector of the 2nd IF, via a small value capacitor, to diode CR201, and then to the base of the RF transistor as reverse bias. Two matched diodes located in T208 form part of the Ratio Detector circuit.

On AM the RF stage is common base for LW and BC, but is common emitter for all other bands (SW1 thru 31M). The Oscillator uses a common base circuit, while the Mixer and IF stages are in common emitter circuits. AM AGC is obtained from the AM Detector diode and supplied to the base of the RF transistor. AGC is then taken from the emitter of the RF transistor and fed to the base of the mixer and 1st IF transistors.

Audio circuitry is common to all bands and consists of 1st Audio, Pre-Driver, Driver, and diode biased class "B" push-pull complementary symmetry Output stage consisting of one NPN and one PNP transistor. An output jack, located on the upper part of the cabinet back, connected to the output of the 1st audio stage, permits this unit to be connected to external amplifiers. Gain of the Pre-Driver is increased when on the VHF band to compensate for the lower recovered audio, due to the reduced deviation of VHF Band transmissions.

This set can be operated from either 115 or 230 Volt AC sources. A switch, provided inside the set must be set to the desired voltage. In addition this set can be operated on 9, 1½ Volt "D" Cells (one cell only powers the Dial and Chart Lights, and must be installed if it is desired to use these lights while on AC operation). Automatic switching between AC and Battery operation is achieved by inserting the AC Cable into a socket located on the cabinet back.

TROUBLE SHOOTING AND SIGNAL TRACING

The old technique of "screwdriver testing" is definitely not recommended while trouble shooting any solid state product. In that method various circuit points were touched or shorted to ground to cause a hum or click in the speaker. This must be avoided because a solid state component can be destroyed if excessive voltage or if wrong polarity is applied.

Only standard point to point signal tracing with the proper RF, IF, and Audio Signal Sources should be used.

AM OSCILLATOR BIAS ADJUSTMENT

Stability of the AM Oscillator may be maintained over a wide range of battery supply voltage's. If a variable DC voltage supply is available adjustment may be made as follows:

- 1. Set Manual Gain Control to maximum clockwise position.
- 2. Rotate Band Switch to 13 meter position.
- 3. Connect the positive end of a 4½ volt battery to Test Point 3 while the negative end is connected in series with a volt meter. The other end of the meter is connected to Test Point 6. There should be a meter reading of approximately 0.5 to 1.0 volt.
- Adjust Bias Control R118 for minimum voltage change on the meter while varying the DC supply between 8 and 12 volts.
- 5. Return Manual Gain Control to the Normal position.

BATTERY LEVEL METER ADJUSTMENT

This receiver is equipped with a combination Tuning and Battery Level Meter which will indicate the condition of the batteries being used. A meter reading in the blue section indicates good batteries. Under normal conditions no adjustment should be necessary. If the meter has been replaced or other repairs made which affect the meter circuit, adjustment may be made as follows. Use a supply of 9 volts and while holding the "Dial Light/Battery Level" switch in the BATTERY LEVEL position adjust control R507 so that the meter pointer lines up with the left edge of the blue section of the meter.

ALIGNMENT

Alignment wrenches, Zenith part number 68-32, 68-35, and 68-45 may be used for aligning this receiver. Charts for proper alignment are included in this service manual.

CHASSIS REMOVAL INSTRUCTIONS

To remove this chassis it will first be necessary to remove the B.F.O., Manual Gain, Tone, Volume and Tuning Knobs from the front panel. A set screw holds the Band Selector knob in place, and will be visible, from the rear, when in the 19M position. Loosen screw and remove knob. The chassis is mounted by five (5) screws. (See chassis layout drawing for location). Remove the screws and also the bracket secured by the three (3) right hand screws. Disconnect the speaker and chart light leads. The chassis is now free to be removed. *Note* — be certain to replace the bracket and screws when replacing chassis.

DIAL LIGHT REPLACEMENT

The dial light assembly is mounted to the dial scale drum by two screws. Lights may be replaced in the following manner. Remove cabinet back. Rotate Band Selector to BC position. Remove shield by *loosening* right hand screw (long) and remove the left hand screw. Lift shield out noting proper position. The dial drum will now be visible through a rectangular cut out at the top of the chassis. Remove the two screws (one at each end of the dial light assembly). Lift plate. These lights are Part Number 100-218.

Replace shield by inserting end tab in to %" hole in end of chassis and the folded tab over chassis. Replace left screw and tighten right hand screw.

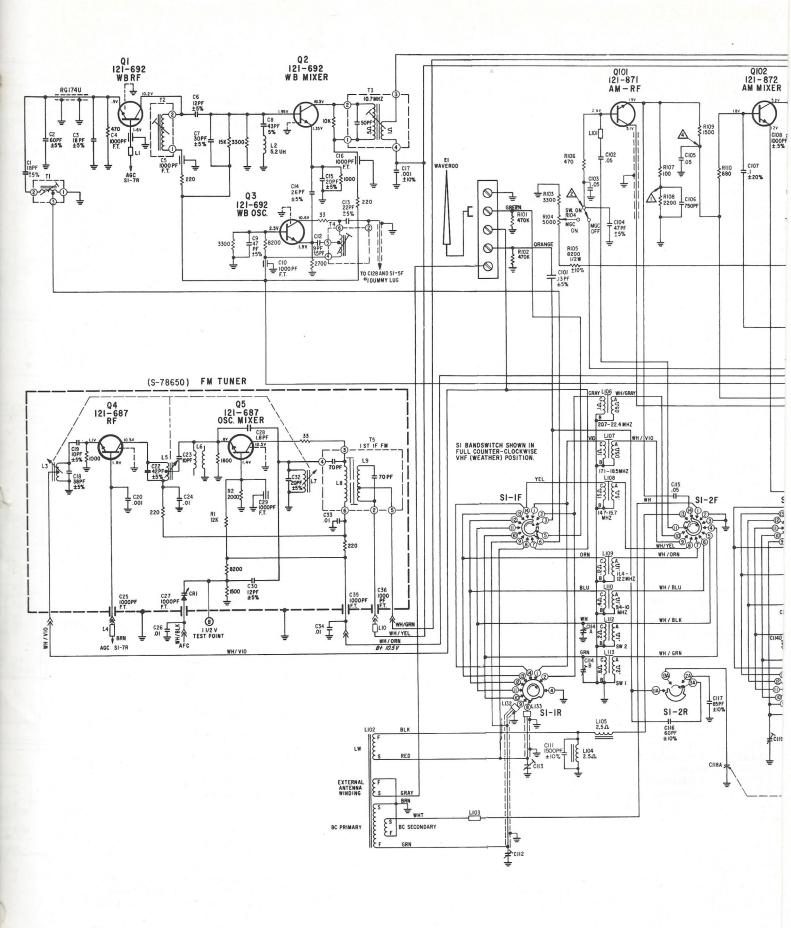
ALIGNMENT PROCEDURE

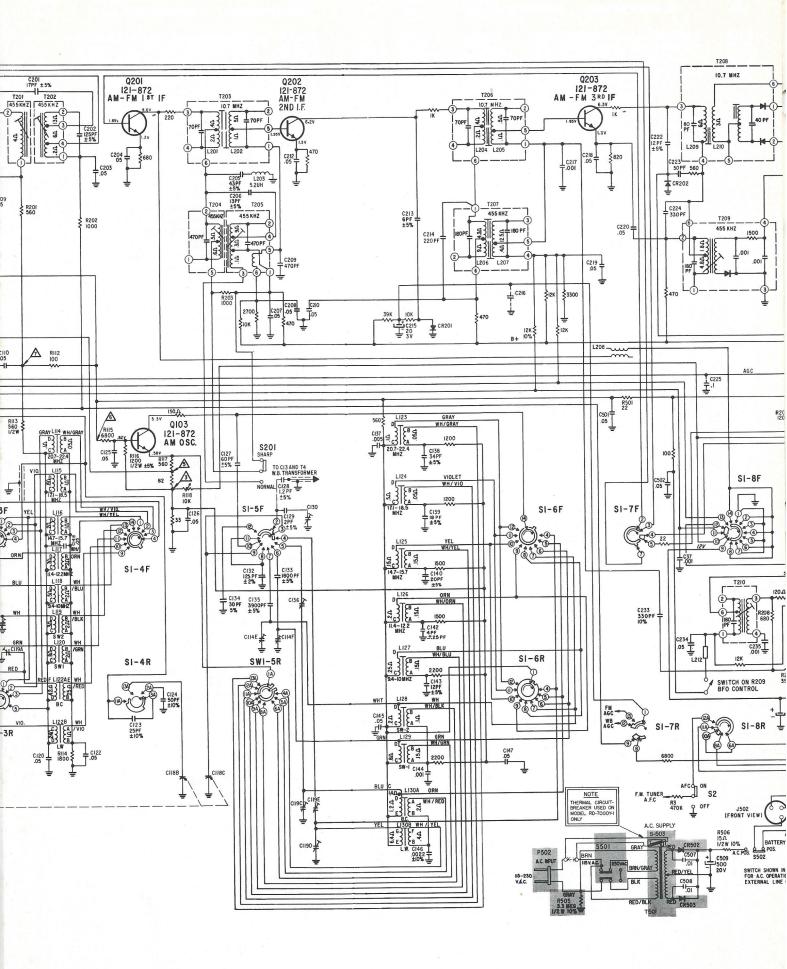
ALIGNMENT PROCEDURE						
STEP NO.	CONNECT GENERATOR TO	INPUT SIGNAL FREQUENCY	BAND I	DIAL FREQUENCY	ADJUST	PURPOSE
NOTE - Perfor	m A.M. I.F. and B.F.O. align speaker voice coil.	ment with bandwi	idth switch	in sharp position	n, manual gain control	off. Connect meter
1	Test Point "5"	455 KHz	BC	1600 KHz	T201, T202, T204 T205, T207, T209	Align A.M. I.F. for max
NOTE - Turn I 2*	B.F.O. Control ON and set to Test Point "5"	mid rotation with 455 KHz	<u>bandwidth</u> BC	switch in sharp	T210	Adjust BFO for zero beat.
	bandwidth switch to normal		off.			
3*		1620 KHz	BC	1620 KHz Gang Open	C119C	
4*	One turn loop loosely	600 KHz	ВС	600 KHz	C136	Set B.C. oscillator to
5 6*	coupled to wavemagnet			d 4 until minim		scale
7*		1420 KHz 600 KHz	BC BC	1420 KHz 600 KHz	C112, C119A L122A	Align B.C. antenna and mixer for maximum
8*	Japan Die eine			d 7 until minim		Timzer for maximam
9*		405 KHz	LW	405 KHz	C119D	
				Gang Open		Set L.W. Oscillator
10*		160 KHz	LW	160 KHz	C119E	to scale.
11				d 10 until mini		
12* 13*	1 19 2 1194 2 1	375 KHz	LW	375 KHz	C113, C119B	Alian L M. Assault
14		160 KHz	LW	160 KHz and 13 until min	L122B	Align L.W. Antenna and mixer for maximum
	F.M. with A.F.C. switch off.	Порес	it steps 12 a	ind 13 diffi filli	imum change	IIIIxei Toi IIIaxiiiTuIII
15		10.7 MHz modulated	FM	98 MHz	T5, T203, T206, and top of T208	Align F.M. I.F. and Ratio Detector Pri. Connect meter across voice coil and reduce input so output will not be greater than 0.4 volts.
16		10.7 MHz	FM	98 MHz	Bottom of T208	Align FM Ratio Detect-
17	Test Point "B" (* *)	Pana	at stone 15 a	nd 16 until min	imum ahansa	or Sec. Place meter probe on pin 6 of T208 and adjust bottom of T208 zero after determining that there is a symmetrical swing around this zero
18		98 MHz	FM	98 MHz	L7	point. Set FM Oscillator to
		modulated	1 101	90 WIT12	L/	scale-meter across voice coil.
19	FM Antenna Terminals (* *)	98 MHz modulated	FM	98 MHz	L3, L5	Align FM antenna and detector for maximum
20		164 MHz	VHF	164 MHz	T4, T1, T2, T3	Align VHF
21	-	161 MHz	VHF	161 MHz	C130	Set VHF Oscillator to
23		164 MHz	VHF 21 and 22 L	164 MHz Intil minimum	T4	scale.
24		161 MHz	VHF	161 MHz	T2	Adjust T2 for equal output
25		164 MHz	VHF	164 MHz	T2	at 161 MHz and 164 MHz.
26		Repeat steps :	24 and 25 ι	intil minimum	change	
27		3.4 MHz	SW1	3.4 MHz	C114F	Set SW1 Oscillator to
28		1.8 MHz	SW1	1.8 MHz	L129	scale
29 30	3 feet of wire ap-	3.4 MHz	st steps 27 a	and 28 until mi 3.4 MHz	C114B, C114D	Align SW1 Antenna &
31	proximately 1 foot from and parallel to	1.8 MHz	SW1	1.8 MHz	L120, L113	mixer for maximum
32	Extended Waverod.			and 31 until mi		
33		8.75 MHz	SW2	8.75 MHz	C114E	Set SW2 Oscillator to
34		3.9 MHz	SW2	3.9 MHz	L128	scale.
35				and 34 until mi		
36		8.75 MHz	SW2	8.75 MHz	C114A, C114C	Align SW2 Antenna &
37		3.9 MHz	SW2	3.9 MHz	L112, L119	mixer for maximum
38		9.7 MHz	at steps 36 31M	and 37 until mi	nimum change L110, L118, L127	Alian 21M 2EM 10M
40		11.8 MHz	25M	9.7 MHz	L110, L118, L127 L109, L117, L126	Align 31M, 25M, 19M, 16M, and 13M Oscilla-
41		15.2 MHz	19M	15.2 MHz	L108, L117, L126	tor, Antenna and
42		17.8 MHz	16M	17.8 MHz	L107, L115, L124	Mixer.
43		21.6 MHz	13M	21.6 MHz	L106, L114, L123	

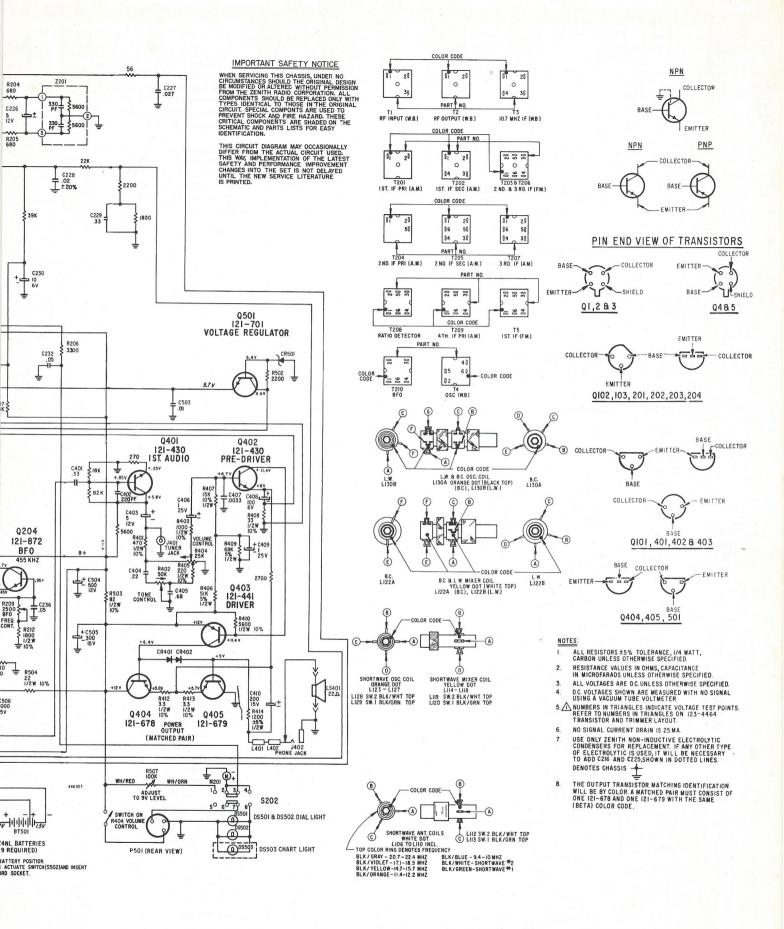
^{*} Rock Tuning Capacitor when making adjustment.

** Probe from generator should be isolated through a .05 MFD Capacitor.

*** Probe from generator should be terminated with the proper resistor to match 72 ohm line output impedance.







NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
		CHASSIS 500MDR70	C132	22-5276	125 Pf Ceramic Tubular + 2% 500 V
		7A3313 300WDN70	C132	22-6335	1800 Pf Polystyrene Cap. ± 5% 30 V
C1	22-5432	18 Pf Ceramic Cisc ± 5% 500 V	C134	22-5092	30 Pf Ceramic Disc ± 5% 500 V
C2	22-2595	60 Pf Ceramic Disc ± 5% 500 V	C135	22-6337	3900 Pf Polystyrene Cap. ± 5% 30 V
C3	22-5432	18 Pf Ceramic Disc ± 5% 500 V	C136	22-3902	Broadcast Padder
C4	22-4728	1000 Pf F.T. 500 V	C137	22-5037	.005 Mfd Ceramic Disc 25 V
C5	22-4728	1000 Pf F.T. 500 V	C138	22-5318	34 Pf Ceramic Disc ± 5% 500 V
C6	22-2379	12 Pf Ceramic Disc ± 5% 500 V	C139	22-5432	18 Pf Ceramic Disc ± 5% 500 V 20 Pf Ceramic Disc ± 5% 500 V
C7	22-5092	30 Pf Ceramic Disc ± 5% 500 V	C140 C141	22-3849	20 Pi Cerainic Disc ± 5% 500 V
C8	22-5586 22-2467	43 Pf Ceramic Disc ± 5% 500 V 47 Pf Ceramic Disc ± 5% 500 V	C141	22-5128	4 Pf Ceramic Disc ± .25 Pf 500 V
C9 C10	22-2467	1000 Pf F.T. 500 V	C143	22-2379	12 Pf Ceramic Disc ± 5% 500 V
C10	22-4120	1000111.11.000 1	C144	22-3748	1000 Pf Ceramic Disc ± 10% 1000 V
C12	22-2514	9 Pf Ceramic Disc ± .5 Pf 500 V	C145	22-3689	.05 Mfd Ceramic Disc 25 V
C13	22-3919	22 Pf Ceramic Disc ± 5% 500 V	C146	22-18	.0022 Ceramic Disc ± 10% 500 V
C14	22-3939	26 Pf Ceramic Disc ± 5% 500 V	C147	22-3689	.05 Mfd Ceramic Disc 25 V
C15	22-3751	20 Pf Ceramic Disc ± 5% 500 V	C148	22-3689	.05 Mfd Ceramic Disc 25 V
C16	22-4728 22-3748	1000 Pf F.T. 500 V .001 Mfd Ceramic Disc ± 10% 1000 V	C201 C202	22-2594 22-3538	17 Pf Ceramic Disc ± 5% 500 V 125 Pf Mica ± 5% 100 V
C17 C18	22-5748	38 Pf Ceramic Disc ± 5% 500 V	C202	22-3689	.05 Mfd Ceramic Disc 25 V
C18	22-2731	10 Pf Ceramic Disc ± .5 Pf 500 V	C204	22-3689	.05 Mfd Ceramic Disc 25 V
C20	22-2729	.001 Mfd Ceramic Disc 25 V	C205	22-5586	43 Pf Ceramic Disc ± 5% 500 V
C21			C206	22-2898	13 Pf Ceramic Disc ± 5% 500 V
C22	22-5320	42 Pf Ceramic Disc ± 5% 500 V	C207	22-3689	.05 Mfd Ceramic Disc 25V
C23	22-3066	10 Pf Tubular Gimmick 500 V	C208	22-3689	.05 Mfd Ceramic Disc 25 V
C24	22-3393	.01 Mfd Ceramic Disc 25 V	C209	22-5761	470 Pf Ceramic Disc ± 10% 1000 V
C25	22-4613	1000 Pf F.T. 500 V	C210 C211	22-3689	.05 Mfd Ceramic Disc 25 V
C26	22-3393	.01 Mfd Ceramic Disc 25 V 1000 Pf F.T. 500 V	C211	22-3689	.05 Mfd Ceramic Disc 25 V
C27 C28	22-4613 22-3309	1.8 Pf Tubular Gimmick 500 V	C212	22-5819	6 Pf Ceramic Disc ± 5% 500 V
C28	22-4613	1000 Pf F.T. 500 V	C214	22-2703	220 Pf Ceramic Disc ± 10% 1000 V
C30	22-2379	12 Pf Ceramic Disc ± 5% 500 V	C215	22-3753	20 Mfd Electrolytic 3 V
C31			C216	22-3955	.1 Mfd Mylar Tubular ± 10% 50 V
C32	22-3849	20 Pf Ceramic Disc ± 5% 500 V	C217	22-2729	.001 Mfd Ceramic Disc 25 V
C33	22-3393	.01 Mfd Ceramic Disc 25 V	C218	22-3689	.05 Mfd Ceramic Disc 25 V
C34	22-3393	.01 Mfd Ceramic Disc 25 V	C219	22-3689	.05 Mfd Ceramic Disc 25 V
C35	22-4613	1000 Pf F.T. 500 V	C220 C221	22-3689	.05 Mfd Ceramic Disc 25 V
C36 C37	22-4613 22-2729	1000 Pf F.T. 500 V .001 Mfd Ceramic Disc 25 V	C222	22-2379	12 Pf Ceramic Disc ± 5% 500 V
C101	22-2729	13 Pf Ceramic Disc ± 5% 500 V	C223	22-2654	50 Pf Ceramic Disc ± 5% 500 V
C102	22-3689	.05 Mfd Ceramic Disc 25 V	C224	22-3255	330 Pf Ceramic Disc ±10% 500 V
C103	22-3689	.05 Mfd Ceramic Disc 25 V	C225	22-3955	.1 Mfd Mylar Tubular ± 10% 50 V
C104	22-2467	47 Pf Ceramic Disc ± 5% 500 V	C226	22-2884	5 Mfd Electrolytic 12 V
C105	22-3689	.05 Mfd Ceramic Disc 25 V	C227	22-5652	.027 Mfd Mylar Tubular ± 10% 50 V
C106	22-5585	750 Pf Ceramic Disc ± 10% 500 V	C228	22-5989	.02 Mfd Ceramic Disc ± 20% 25 V
C107	22-3955	.1 Mfd Mylar Tubular ± 20% 50 V 1000 Pf Mica ± 100 V	C229 C230	22-5596 22-3256	.33 Mfd Mylar Tubular ± 20% 50 V 10 Mfd Electrolytic 6 V
C108 C109	22-3749 22-3689	.05 Mfd Ceramic Disc 25 V	C231	22-3230	10 Mid Electrolytic 6 v
C110	22-3689	.05 Mfd Ceramic Disc 25 V	C232	22-3689	.05 Mfd Ceramic Disc 25 V
C111	22-5459	1500 Pf Ceramic Disc ± 10% 500 V	C233	22-3255	330 Pf Ceramic Disc ± 10% 500 V
C112	22-6045	B.C. Antenna Trimmer (Fixed)	C234	22-3689	.05 Mfd Ceramic Disc 25 V
C113	22-6017	L.W. Antenna Trimmer (Fixed)	C235	22-3748	.001 Mfd Ceramic Disc ± 10% 1000 V
C114A		S.W. 2 Antenna Trimmer	C236	22-3689	.05 Mfd Ceramic Disc 25 V .33 Mfd Mylar Tubular + 20% 50 V
C114B		S.W. 1 Antenna Trimmer S.W. 2 Mixer Trimmer	C401 C402	22-5596 22-2703	220 Pf Ceramic Disc ± 10% 500 V
C114C C114D	22-5705	S.W. 2 Mixer Trimmer	C402	22-2884	5 Mfd Electrolytic 12 V
C114E		S.W. 2 Oscillator Trimmer	C404	22-5583	.22 Mfd Mylar Tubular ± 20% 50 V
C114F		S.W. 1 Oscillator Trimmer	C405	22-5709	.68 Mfd Ceramic Disc ± 30% 3 V
C115 '	22-3689	.05 Mfd Ceramic Disc 25 V	C406	22-3615	1 Mfd Electrolytic 25 V
C116	22-5588	60 Pf Ceramic Disc ± 10% 500 V	C407	22-13	.0033 Mfd Ceramic Disc 500 V
C117	22-5589	85 Pf Ceramic Disc ± 10% 500 V	C408	22-5413	100 Mfd Electrolytic 6 V
C118A	22-6874	Antenna Tuning Mixer Tuning	C409 C410	22-3615 22-4571	1 Mfd Electrolytic 25 V 200 Mfd Electrolytic 15 V
C118B C118C	22-00/4	Oscillator Tuning	C501	22-3689	.05 Mfd Ceramic Disc 25 V
C119A)		B.C. Mixer Trimmer	C502	22-3689	.05 Mfd Ceramic Disc 25 V
C119B		L.W. Mixer Trimmer	C503	22-3393	.01 Mfd Ceramic Disc 25 V
C119C }	22-5861	B.C. Oscillator Trimmer	C504	22-2985	500 Mfd Electrolytic 12 V
C119D		L.W. Oscillator Trimmer	C505	22-5192	300 Mfd Electrolytic 15 V
C119E)		L.W. Oscillator Padder	C506	22-4573	1000 Mfd Tubular Electrolytic 15 V
C120	22-3689	.05 Mfd Ceramic Disc 25 V	C507 C508	22-4617 22-4617	.01 Mfd Ceramic Disc 500 V .01 Mfd Ceramic Disc 500 V
C121	22 2600	.05 Mfd Ceramic Disc 25 V	C508 C509	22-6316	500 Mfd Electrolytic 20 V
C122 C123	22-3689 22-2371	25 Pf Ceramic Disc ± 10% 500 V	R1	63-9921-98	12K ± 5% 1/4 W
C123	22-2571	50 Pf Ceramic Disc ± 10% 500 V	R2	63-9921-79	$2000 \pm 5\% \text{ 1/4 W}$
C125	22-3689	.05 Mfd Ceramic Disc 25 V	R3	63-9922-36	470 K ± 5% 1/4 W
C126	22-3689	.05 Mfd Ceramic Disc 25 V	R101	63-9922-36	470K ± 5% 1/4 W
C127	22-2979	60 Pf Ceramic Tubular ± 5% 500 V	R102	63-9922-36	470K ± 5% 1/4 W
C128	22-5164	1.2 Pf Molded Gimmick Cap. ± 5% 500 V	R103	63-9921-84	3300 ± 5% 1/4 W
C129	22-2461	2 Pf Molded Gimmick Cap. ± 5% 500 V	R104 R105	63-7530 63-1824	5KΩ Manual Gain Control & Switch 8200 ± 10% 1/2 W
C130	22-5348	Ceramic Trimmer Capacitor 500 V	K103	0 <i>3</i> -102 -	0200 ± 10/0 1/2 H

^{*}Denotes Parts Not Previously Used.

ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
R106	63-9921-64	470 ± 5% 1/4 W	L124	S-78089	16M Oscillator Coil (17.2-18.5 MHz)
R107		$100 \pm 5\% \ 1/4 \ W$	L125	S-78088	19M Oscillator Coil (14.7-15.7 MHz)
R108		2200 ± 5% 1/4 W	L126	S-78087	25M Oscillator Coil (11.4-12.2 MHz)
R109		1500 ± 5% 1/4 W	L127	S-78086	31M Oscillator Coil (9.4-10 MHz)
R110 R111	63-9921-68	680 ± 5% 1/4 W	L128 L129	S-78085 S-78084	S.W. 2 Oscillator Coil
R111	63-9921-48	100 ± 5% 1/4 W	L129		S.W. 1 Oscillator Coil (B.C. Oscillator Coil
R113		560 ± 5% 1/4 W	L130B		L.W. Oscillator Coil
R114	63-9921-78	1800 ± 5% 1/4 W	L132	149-311	Iron Core Sleeve
R115	63-9921-92	6800 ± 5% 1/4 W	L133	149-311	Iron Core Sleeve
R116	63-1788	$1200 \pm 5\% \ 1/2 \ W$	L201	IN T203 TOP	2nd IF Transformer Pri 10.7 MHz
R117 R118	63-9921-66 63-7126	560 ± 5% 1/4 W Oscillator Bias Control 10KΩ	L202 L203	IN T203 BOT S-23757	2nd IF Transformer Sec 10.7 MHz 5.2 UH Choke Coil
R201		560 ± 5% 1/4 W	L203	IN T206 TOP	3rd IF Transformer Pri 10.7 MHz
R202		1000 ± 5% 1/4 W	L205	IN T206 BOT	3rd IF Transformer Sec 10.7 MHz
R203		1000 ± 5% 1/4 W	L206	IN T207 TOP	3rd IF Transformer Pri 455 KHz
R204		$680 \pm 5\% 1/4 \text{W}$	L207	IN T207 BOT	3rd IF Transformer Sec 455 KHz
R205 R206	63-9921-68	680 ± 5% 1/4 W	L208 L209	20-1256 IN T208 BOT	10.7 MHz Trap Coil Ratio Detector Transformer Pri 10.7 MHz
R207		3300 ± 5% 1/4 W 120K ± 5% 1/4 W	L209	IN T208 BOT	Ratio Detector Transformer Sec 10.7 MHz
R208	63-9921-68	680 + 5% 1/4 W	L211	11 1200 101	Ratio Detector Transformer Bee 10.7 Marie
R209	63-7528	B.F.O. Control and Switch 2500Ω	L212	149-333	Iron Core Sleeve
R210	63-9921-62	390 ± 5% 1/4 W	L401	149-333	Iron Core Sleeve
R211	60 1506	1000 - 100 1 10 11	L402	149-333	Iron Core Sleeve
R212 R401	63-1796 63-1771	1800 ± 10% 1/2 W 470 ± 10% 1/2 W	T1 T2	95-2985 95-2613	RF Input Transformer (W.B.) RF Output Transformer (W.B.)
R402	63-7529	50K Tone Control	T3	95-2611	10.7 MHz I.F. Transformer (W.B.)
R403	63-1785	1000 ± 10% 1/2 W	T4	95-2986	Oscillator Transformer (W.B.)
R404	63-7135	25K Volume Control & Switch	T5	95-2609	1st IF Transformer (FM)
R405	63-1757	220 ± 10% 1/2 W	T201	95-2002	1st IF Primary Transformer (AM)
R406	63-1857	51K ± 5% 1/2 W	T202	95-2003	1st IF Secondary Transformer (AM)
R407 R408	63-1834 63-1722	15K ± 10% 1/2W 33 ± 10% 1/2 W	T203 T204	95-2610 95-2604	2nd IF Transformer (FM) 2nd IF Primary Transformer (AM)
R409	63-1861	68K ± 5% 1/2 W	T204	95-2605	2nd IF Finnary Transformer (AM) 2nd IF Secondary Transformer (AM)
R410	63-1817	5600 ± 10% 1/2 W	T206	95-2610	3rd IF Transformer (FM)
R411	1		T207	95-2606	3rd IF Transformer (AM)
R412	63-4522	$3.3 \pm 10\% \ 1/2 \ W$	T208	95-2608	Ratio Detector Transformer (FM)
R413	63-4522	$3.3 \pm 10\% 1/2 \text{ W}$	T209	95-2607	4th IF Primary Transformer (AM)
R414 R501	63-1788 63-9921-32	1200 ± 5% 1/2 W 22 ± 5% 1/4 W	T210 T501	95-2634 95-2671	B.F.O. Transformer Power Transformer
R502	63-9921-80	2200 ± 5% 1/4 W	CRI	103-39	AFC Diode
R503	63-1740	82 ± 10% 1/2 W	CR201	103-44	Crystal Diode
R504	63-1715	22 ± 10% 1/2 W	CR202	103-31	Crystal Diode
R505	63-1932	$3.3 \text{ Meg} \pm 10\% 1/2 \text{ W}$	CR401	103-141	Audio Diode
R506	63-1708	15 ± 10% 1/2 W	CR402	103-141	Audio Diode
R507 L1	63-7125 149-311	Meter Adjustment Control 100K Ohm Iron Core Sleeve	CR501 CR502	103-140 212-76	Zener Silicon Rectifier
L2	S-23757	5.2 UH Choke Coil	CR502	212-76	Silicon Rectifier
L3	S58095	Antenna Coil Assembly	S1	85-1208	Bandswitch
L4	149-311	Iron Core Sleeve	S2	85-1013	Sideswitch S.P.D.T. A.F.C. (White)
L5	S58095	Det. Coil Assembly	S201	85-1014	Sideswitch S.P.D.T. Bandwidth (Blue)
L6	20-1256	10.7 MHz Trap Coil Osc. Coil Assembly	S202 S501	85-1015 85-818	Sideswitch (Momentary Contact) (Black) Sideswitch D.P.D.T. 230-115V.A.C.
L7 L8	S58095 IN T5	1st IF Transformer Pri. F.M.	S502	85-1043	Sideswitch B.P.S.T.
L9	IN T5	1st IF Transformer Sec. F.M.	S503	85-1393	Circuit Breaker, Thermal, Self-setting
L10	149-311	Iron Core Sleeve			(Used on RD-7000Y-1 Only)
L101	149-311	Iron Core Sleeve	DS501	100-218	Dial Light Lamp
L102	S-85229	Wavemagnet Winding Assembly (Fixed)	DS502	100-218	Dial Light Lamp
L103 L104	149-311 S-45000	Iron Core Sleeve Series Antenna Coupling Coil Assembly	DS503 P401	100-218 58-214	Chart Lamp Tuner Plug (On Cabinet Back)
L105	S-45000	Series Antenna Coupling Coil Assembly	P501	58-235	Three Pin Power Supply Connector
L106	S-78083	13M Antenna Coil (20.7-22.4 MHz)	P502	58-316	AC-Input Plug
L107	S-78082	16M Antenna Coil (17.1-18.5 MHz)	J401	78-644	Tuner Output Jack
L108	S-78081	19M Antenna Coil (14.7-15.7 MHz)	J402	44-34	Headphone Jack
L109	\$78080	25M Antenna Coil (11.4-12.2 MHz)	J403	44-84	Tuner Jack
L110 L111	S-78079	31 M Antenna Coil (9.4-10 MHz)	J501 BT501	78-1101 Z4NL	Battery Socket 1½V Battery (9 Required)
L112	S-78078	S.W. 2 Antenna Coil	LS401	49-1143	4" x 6" P.M. Speaker
L113	S-78077	S.W. 1 Antenna Coil	M201	122-38	Meter (Tuning and Battery Level)
L114	S-78097	13M Mixer Coil (20.7-22.4 MHz)	Z201	105-96	Integnet
L115	S-78096	16M Mixer Coil (17.1-18.5 MHz)	E1	1-19	Waverod
L116	S-78095	19M Mixer Coil (14.7-15.7 MHz)			
L117 L118	S-78094 S-78093	25M Mixer Coil (11.4-12.2 MHz) 31M Mixer Coil (9.4-10 MHz)	PART		DESCRIPTION
L119	S-78093	S.W. 2 Mixer Coil	NO.		DESCRIF HUN
L120 L121	S-78091	S.W. 1 Mixer Coil		(CHASSIS 500 MDR70
L122A)	S-83512	B.C. Mixer Coil	12-4850		
L122B		L.W. Mixer Coil	20-1256		
L123	S-78090	13M Oscillator Coil (20.7-22.4 MHz)	22-13	.0033 MF	Disc Capacitor – 500V.
*Denotes P	arts Not Previo	ously Used.			

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
NO.	DESCRIPTION	NO.	DESCRIPTION
22-2379	12 PF Disc Capacitor – 500V. (3 Req.)	63-4217	5600 Ohm Resistor – 1/4 W. 10%
22-2467	47 PF Ceramic Disc Capacitor - 500V. (2 Req.)	63-4227	10K Ohm Resistor – 1/4 W. 10% (4 Req.)
22-2594	17 PF Ceramic Disc Capacitor – 500V.	63-4231	12K Ohm Resistor – 1/4 W. 10% (2 Req.)
22-2595	60 PF Disc Capacitor – 500V.	63-4234	15K Ohm Resistor – 1/4 W. 10%
22-2654	50 PF Disc Capacitor – 500V.	63-4238	18K Ohm Resistor – 1/4 W. 10%
22-2703 22-2729	220 PF Disc Capacitor – 500V. (2 Req.)	63-4241 63-4252	22K Ohm Resistor – 1/4 W. 10%
22-2729	.001 MF Disc Capacitor – 25V. 5 MF Electrolytic Capacitor – 12V. (2 Req.)	63-4266	39K Ohm Resistor – 1/4 W. 10% (2 Req.) 82K Ohm Resistor – 1/4 W. 10%
22-2898	13 PF Disc Capacitor – 500V.	63-4272	120K Ohm Resistor – 1/4 W. 5%
22-2985	500 PF Electrolytic Capacitor – 12V.	63-4522	3.3 Ohm Resistor – 1/2 W. 10% (2 Req.)
22-3255	330 PF Disc Capacitor – 500V. (2 Req.)	*63-7125	Meter Adjust Control
22-3256	10 MF Electrolytic Capacitor – 6V.	*63-7126	Oscillator Bias Control
22-3393	.01 MF Disc Capacitor – 25V.	63-7135	Volume Control & Switch
22-3615	1 MF Electrolytic Capacitor – 25V. (2 Req.)	*63-7528	B.F.O. Control & Switch
22-3689	.05 MF Disc Capacitor – 25V. (12 Req.)	*63-7529	Tone Control
22-3748 22-3753	.001 Disc Capacitor – 1000V. (2 Req.) 20 MF Electrolytic Capacitor – 3V.	*63-7530 64-6	Manual Gain Control & Switch – 5K Ohm 1/8" Dia. x 3/16" Lg. Tubular Rivet (2 Req.)
22-3733	26 PF Disc Capacitor – 500V.	64-7	1/8" Dia. x 5/32" Lg. Tubular Rivet (2 Req.)
22-4571	200 MF Electrolytic Capacitor – 15V.	64-88	.088 Dia. x 1/8" Lg. Tubular Rivet (7 Req.)
22-4573	1000 MF Electrolytic Capacitor – 15V.	64-151	.088 Dia. x 3/32" Lg. Tubular Rivet (2 Pt. Of
22-4728	1000 PF Feed-Thru Capacitor - 500V. (4 Req.)		S-78651)
22-5092	30 PF Capacitor – 500V.	64-288	Shoulder River (Pt. Of S-78717)
22-5192	300 MF Electrolytic Capacitor – 15V.	73-88	4-40 x 1/8 Allen Hd. Set Screw – Couppoint
22-5413	100 MF Electrolytic Capacitor – 6V.	78-644	(Used On 34-662)
22-5432 22-5583	18 PF Disc Capacitor – 500V. (3 Req.) .22 MF Capacitor – 50V.	76-044	Connector Socket, Single Contact (Tuner Output Jack)
* 22-5586	43 PF Disc Capacitor – 500V. (2 Req.)	78-1675	Transistor Socket (3 Req.)
22-5596	.33 MF Capacitor – 50V. (2 Req.)	OR	
22-5652	.027 MF Tubular Capacitor - 50V.	78-1844	Transistor Socket (3 Req.)
22-5658	150 PF Disc Capacitor 10% - 1000V.	78-1838	Transistor Socket (4 Req.)
*22-5709	.68 MF Disc Capacitor – 3V.	78-1842	Transistor Socket (6 Req.)
22-5761	470 PF Disc Capacitor – 1KV.	79-174-12	No. 18 Sleeving – Yellow – 1-1/2"
22-5819	6 PF Ceramic Disc Capacitor – 500V. (2 Req.)	80-1140	Drive Tension Spring (2 Req.)
22-5989 *34-552	.02 MF Disc Capacitor – 16V. Drive Gear	*80-2125 83-3586	Pointer Spring (Pt. Of S-78739) 12 Lug Terminal Strip (2 Req.)
*34-662	Gear	83-3588	7 Lug Terminal Strip (2 Req.)
44-34	Headphone Jack	83-3641	5 Lug Terminal Strip
*52-1458	Shielded Lead	83-4997	4 Lug Terminal Strip (Pt. OF S-78651)
54-139	3/8-32 x 9/16 Hex Palnut - Cadmium (1 Used	83-5187	11 Lug Terminal Strip
	On Ea. 63-7135, 63-7528, 63-7529, 63-7530)	83-5268	8 Lug Terminal Strip
54-560	1/4-32 x 3/8 Palnut (Mts. 44-34)	83-5410	3 Lug Terminal Strip
54-633	Socket Retaining Nut (3 Used On 78-1685 Or	*83-7596	Antenna Mtg. Strip (Pt. OF S-85229)
50 225	78-1844)	*85-1013	Slide Switch – AFC (White) S.P.D.T.
58-235 *59-904	3 Prong Plug (Power Supply Connector) Dial Pointer	*85-1014 85-1015	Slide Switch — Bandwidth (Blue) S.P.D.T. Slide Switch — Tuning Meter & Dial Light (Black)
61-222	Idler Pulley (Pt. Of S-78717)	86-329	Connector Terminal (1 Used on Ea. White &
63-1715	22 Ohm Resistor – 1/2 W. 10% (2 Req.)	00 323	Black Wire)
63-1722	33 Ohm Resistor – 1/2 W. 10%	86-441	Insulated Feed-Thru Terminal (3 Req.)
63-1740	82 Ohm Resistor – 1/2 W. 10%	93-1043	Spring Washer
63-1757	220 Ohm Resistor – 1/2 W. 10%	*93-1792	.062 Thk. x .257 x 3/8 Wahser (Used On 34-552)
63-1768	390 Ohm Resistor – 1/2 W. 10%	*93-1825	3.8 O.D. x .257 I.D. x .031 Thk. Washer
63-1771	470 Ohm Resistor – 1/2 W. 10%	*94-1487	Spacer (1 Used On Ea. 114-627) (2 Req.)
63-1778	680 Ohm Resistor – 1/2 W. 10% (3 Req.)	*95-2604 *95-2605	2nd I.F. Primary Transformer (AM) 2nd. I.F. Secondary Transformer (AM)
63-1785 63-1788	1000 Ohm Resistor – 1/2 W. 10% (2 Req.) 1200 Ohm Resistor – 1/2 W. 5%	95-2606	3rd. I.F. Transformer (AM)
63-1796	1800 Ohm Resistor $-\frac{1}{2}$ W. 10%	*95-2607	4th I.F. Transformer (AM)
63-1806	3300 Ohm Resistor – 1/2 W. 10% (2 Reg.)	*95-2608	Ratio Detector Transformer (FM)
63-1817	5600 Ohm Resistor – 1/2 W. 10%	95-2610	2nd. & 3rd. I.F. Transformer – FM (2 Req.)
63-1824	8200 Ohm Resistor – 1/2 W. 10%	*95-2611	10.7 MHz I.F. Transformer (WB)
63-1834	15K Ohm Resistor – 1/2 W. 10%	95-2613	RF Output Transformer 9WB)
63-1857	51K Ohm Resistor – 1/2 W. 5%	*95-2634 *95-2985	B.F.O. Transformer RF Input Transformer (W.B.)
63-1861 63-1897	68000 Ohm Resistor – 1/2 W. 5% 470K Ohm Resistor – 1/2 W. 10%	*95-2986	Oscillator Transformer (W.B.)
63-4122	33 Ohm Resistor $-1/4$ W. 10%	100-218	Dial Light – GE No. 123 (2 Req.)
63-4133	56 Ohm Resistor – 1/4 W. 10%	103-31	Diode
63-4143	100 Ohm Resistor – 1/4 W. 10%	103-44	Diode
63-4147	120 Ohm Resistor – 1/4 W. 10%	103-140	Diode (Zener)
63-4157	220 Ohm Resistor – 1/4 W. 10% (3 Req.)	*103-141	Diode – Audio (2 Req.)
63-4161	270 Ohm Resistor – 1/4 W. 10%	105-96	Integret
63-4171	470 Ohm Resistor – 1/4 W. 10% (5 Req.)	*112-2099	6-20 x 1/4 Special Phillips Pan Hd. Self-Tap.
63-4175 63-4178	560 Ohm Resistor – 1/4 W. 10% 680 Ohm Resistor – 1/4 W. 10% (2 Req.)	113-40	Screw – Cadmium (2 Used On S-78651) 6-32 x 1/4 Phillips Rd. Hd. Mach. Screw–
63-4178	820 Ohm Resistor – 1/4 W. 10% (2 Req.) 820 Ohm Resistor – 1/4 W. 10%	113-40	Cadmium - Internal Shadeproof Lockwasher
63-4185	1000 Ohm Resistor – 1/4 W. 10% (3 Req.)		(2 Used On S-78717)
63-4192	1500 Ohm Resistor – 1/4 W. 10% (5 Req.)	113-182	8-32 x 1/4 Lg. Phillips Rd. Hd. Mach. Screw-
63-4196	1800 Ohm Resistor – 1/4 W. 10%		Cadmium – Ext. Shakeproof Lockwasher
63-4198	2200 Ohm Resistor – 1/4 W. 5%		(2 Mt. S-78651 & 1 Mts. S-78717) (3 Req.)
63-4199	2200 Ohm Resistor – 1/4 W. 10%	*113-210	8-32 x 0.875 CD 0.312 Hex Hd. Slotted Mach.
63-4203	2700 Ohm Resistor – 1/4 W. 10% (3 Req.)		Screw W/Washer (Mts. S-78651)
63-4206	3300 Ohm Resistor $-1/4$ W. 10% (3 Req.)	114-39	8-32 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw—
*Denotes P	arts Not Previously Used.		Cadmium (3 Mt. RF. Tuner)

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
114 571	4.24 2/16 17 (1) 11 171 (1) 12		
114-571 114-627	4-24 x 3/16 Hex Slotted Hd. Self-Tap. Screw-Stat. Bronze (2 Uded On S-78718) 8-18 x 1-1/8 Hex Hd. Self-Tap. Screw — Cadmium	*22-5861	Five Section Trimmer Capacitor – B.C. Mixer, L.W. Mixer, B.C. Oscillator, L.W. Oscillator
*114-784	Flat Washer Att. (2 Used On S-85229)	*22-6017	& L.W. Oscillator Padder Trimmer Capacitor — L.W. Antenna Trimmer
	8-18 x 0.310 x 0.250 Hex Hd. Slotted Screw – Stat. Bronze	*22-6045	(Fixed) Trimmer Capacitor — B.C. Antenna Trimmer
121-430	Transistor 1st. Aduio, Pre-Driver (2 Req.)	22 (227	(Fixed)
121-441 121-692	Transistor – Driver	22-6335	1800 PF Polystyrene Capacitor – 30V. 5%
*121-701	Transistor – R.F. Oscillator Mixer (3 Req.) Transistor – Voltage Regulator	22-6337 *22-6874	3900 PF Polystyrene Capacitor – 30V. 5%
*121-872	Transistor – Voltage Regulator Transistor – AM Mixer, AM - FM 1st. IF, AM-	22-00/4	3 Section Variable Capacitor (Antenna, Mixer & Oscillator Tuning)
121 0/2	FM 2nd. IF & AM - FM 3rd. IF (4 Req.)	22-1170	FM Tuner Cover
*122-38	Tuning Meter (R.F. & Battery Checker)	*52-1486	Coaxial Cable
126-1554	Heat Sink	*52-1608	Shielded Cable
149-311	Ferrite Sleeve (4 Req.)	*52-1781	Shielded Cable
149-333	Ferrite Sleeve (3 Req.)	*52-2034	Cable, 75 Ohm Coaxial
166-105 800-245	Bumper (2 Req.)	54-139 54-227	3/8-32 Hex Palnut (Used On 85-1208)
S-23757	Output Trans. Asm. (Consists of 1-21-678 & 1-679) Choke Coil Assem. (2 Req.)	34-227	4-40 x 1/4 x 3/32 Thk. Hex Nut – N.P. (2 Used On 85-1208)
S-75005	Indicator Lamp Socket & Mtg. STrip Assem.	54-490	Hex Palnut Tension Nut (Used On S-90975)
S-78651	Control Mtg. Bracket Assem.	54-633	Retaining Nut (Use Only When 78-165 Is Used)
*S-78717	Pulley & Bracket Assem.		(2 Part Of S-79040)
*S-78718	Dial Drum Assem.	*56-493	Guide Pin
*S-78739	Drive Cord, Eyelet & Spring Assem Pointer	*57-6678	Switch Mtg. Plate
*C 70740	Guide	*57-6867	Trimmer Mtg. Plate
*S-78740 *S-78741	Drive Cord & Eyelet Assem. – Dial Drive Drive Cord & Eyelet Assem. – Dial Drive	61-222 63-1743	Idler Pulley (2 Part Of S-78724)
S-85229	Wavemagnet Antenna Assem.	63-1772	100 Ohm Resistor – 1/2 W. 10% (2 Req.)
*S-90843	Dial Scale Assem. – Rectangular Scale & Drum	63-1775	470 Ohm Resistor – 1/2 W. 20% 560 Ohm Resistor – 1/2 W. 10% (2 Req.)
	(Radio)	63-1779	680 Ohm Resistor – 1/2 W. 10% (2 Req.)
		63-1788	1200 Ohm Resistor – 1/2 W. 5%
	R.F. TUNER COMPONENTS	63-1792	1500 Ohm Resistor – 1/2 W.10%
10.0514	0.716 7 4	63-1796	1800 Ohm Resistor – 1/2 W.10%
12-3514 12-3515	Coil Mtg. Bracket Slide Stop Bracket	63-1797	2000 Ohm Resistor – 1/2 W. + 5% – Insulated
12-3517	Tuner Slide Bracket	63-1799 63-1819	2200 Ohm Resistor – 1/2 W. 10% 6800 Ohm Resistor – 1/2 W.5%
*12-5871	RF Shelf Bracket (Pt. Of S-90975)	63-1830	12K Ohm Resistor – 1/2 W.5%
19-322	Coil Mtg. Clip (2 Part Of S-78743 & 3 Part Of	63-1897	470K Ohm Resistor – 1/2 W. 10% (2 Req.)
14,011	S-78649) (5 Req.)	63-4101	10 Ohm Resistor – 1/4 W. 10%
19-442	Coil Mtg. Clip (21 Part Of S-78743)	63-4122	33 Ohm Resistor – 1/4 W. 10% (2 Req.)
20-1256 22-18	10.7 MHz Trap Coil .0022 MF Disc Cpacitor – 500V.	*63-4140	82 Ohm Resistor – 1/4 W. 10%
22-2371	25 PF Disc Capacitor – 25V.	63-4150 63-4157	150 Ohm Resistor – 1/4 W. 10% 220 Ohm Resistor – 1/4 W. 10% (2 Req.)
22-2379	12 PF Disc Capacitor – 500V. (2 Req.)	63-4175	560 Ohm Resistor – 1/4 W. 10% (2 Req.)
22-2461	2 PF Glimmick Capacitor – 500V.	63-4185	1000 Ohm Resistor – 1/4 W. 10%
22-2594	17 PF Disc Capacitor – 500V.	63-4186	1000 Ohm Resistor – 1/4 W. 20%
22-2729	.001 MF Disc Capacitor – 25V.	63-4189	1200 Ohm Resistor – 1/4 W. 10% (2 Req.)
22-2731 22-2898	10 PF Disc Capacitor – 500V.	63-4192	1500 Ohm Resistor – 1/4 W. 10% (3 Req.)
22-2979	13 PF Disc Capacitor 60 PF Ceramic Capacitor – 500V.	63-4196 63-4199	1800 Ohm Resistor – 1/4 W. 10%
22-3066	10 PF Gimmick Capacitor – 500V.	63-4220	2200 Ohm REsistor – 1/4 W. 10% (2 Req.) 6800 Ohm Resistor – 1/4 W. 10%
22-3309	1.8 PF Gimmick Capacitor – 500V.	63-4224	8200 Ohm Resistor – 1/4 W. 10%
22-3393	.01 MF Disc Capacitor – 25V. (4 Req.)	63-4231	12K Ohm Resistor – 1/4 W. 10% (2 Req.)
22-3538	125 PF Mica Capacitor – 100V.	73-24	8-32 x 1/4 Slotted Hex Hd. Set Screw – Cuppoint
22-3689 22-3748	.05 MF Disc Capacitor – 25V. (14 Req.)	76 1474	(2 Part Of S-58142)
22-3749	.001 MF Disc Capacitor – 1KV. 1000 PF Mica Capacitor – 100V.	76-1474 78-1675	Driver Shaft (Part Of S-64842) Transistor Socket (5 Req.)
22-3849	20 PF Disc Capacitor – 500V. (2 Req.)	78-1842	Transistor Socket (3 Req.)
22-3902	Single Section Trimmer Capacitor (Broadcast	79-174-12	No. 18 Sleeving – Yellow – 1-1/2"
	Padder)	80-209	Drive Cord Tension Spring
22-3955	.1 MFD. Capacitor – 50 V.	80-1467	Spring
22-4613	1000 PF Feed-Thru Capacitor – 500V. (5 Req.)	80-1672	Retaining Spring
22-5037 22-5092	.005 MF Disc Capacitor – 25V.	80-1951	Retaining Spring (1 Used On Ea. 94-613)
22-5128	30 PF Ceramic Capacitor – 500V. 4 PF Disc Capacitor – 500V.	83-2770	(3 Req.) 7 Lug Terminal Strip (Part Of S-90975)
22-5164	1.2 PF Gimmick Capacitor – 500V.	83-3218	2 Lug Terminal Strip (Part Of S-90978)
22-5276	125 PF Ceramic Capacitor – 500V.	*83-5668	4 Lug Terminal Strip (Part Of S-90975)
22-5318	34 PF Disc Capacitor – 500V.	*83-6983	Antenna Terminal Strip (Part Of S-80653)
22-5319	38 PF Disc Capacitor – 500V.	*85-1208	Bandswitch
22-5320 22-5348	42 PF Capacitor – 500V.	86-306	Terminal
22-5432	Trimmer Capacitor – 500V. 18 PF Disc Capacitor – 500V.	86-441 93-920	Insulated Feed-Thru Terminal (3 Req.)
22-5585	750 PF Disc Capacitor – 500V.	J 3-3 2U	.020 x .093 x 7/32 Steel Washer — Cadmium Plate (2 Part Of S-78724)
*22-5588	60 PF Disc Capacitor – 500V.	93-966	No. 1205 Internal Shakeproof Lockwasher—
22-5589	85 PF Disc Capacitor – 500V.		Cadmium (1 Used On Ea. 54-227) (2 Req.)
*22-5590	50 PF Ceramic Capacitor – 500V.	93-1793	Nylon Washer (Used On S-78724)
22-5705	Six Section Trimmer Capacitor — S.W. 2 Antenna Trimmer, S.W. 1 Antenna Trimmer, S.W. 2	94-334 94-613	Capacitor Mtg. Bushing (3 Req.)
	Mixer Trimmer, S.W. 1 Mixer Trimmer, S.W. 2	95-2002	Iron Core Bushing (3 Req.) 1st. I.F. Transformer (Primary) – AM
	2 Oscillator Trimmer, S.W. 1 Oscillator Trimmer	95-2002	1st. I.F. Transformer (Secondary) – AM 1st. I.F. Transformer (Secondary) – AM
*Denotes Den	te Not Praviously, Hand		

PART		PART	
NO.	DESCRIPTION	NO.	DESCRIPTION
*95-2609	1st. I.F. Transformer (FM)	MODE	ELS ROYAL D7000Y AND ROYAL D7000Y-1
103-39	Diode, AFC		USING CHASSIS 500DMR70
112-1373	Trimmer, Adjusting Screw	7 D. T.	1 1/2V Detterm (O Descriped)
112-1467	2-56 x 5/16 Phillips Pan Hd. Mach. Screw -	Z4NL	1-1/2V. Battery (9 Required) Telescopic Antenna
112.0	Cadmium (1 Mts. S-64842)	1-19 11 -24 7	Line Cord (Part of S-90896)
113-8	6-32 x 1/4 x 1/4 Hex Hd: Mach. Screw - N.P	15-108	Socket Shell (Cabinet Back Assem.)
	Internal Shakeproof Lockwasher (1 Mts. 22-5705 & 2 Mt. 22-5861) (3 Req.)	16-4205	Packing Carton
113-10	6-32 x 3/16 x 1/4 Hex Hd, Mach, Screw - N.P	*26-2373	Dial Scale - Compass Circular 3 IN/8 Points
115 10	Internal Shakeproof Lockwasher (1 Mts. S-78649)		(Part of S-91089)
113-13	6-32 x 7/16 x 1/4 Hex Hd. Mach. Screw - N.P	*30-328	Decoration - Trim Strip - Left Side (Part of
	Ext. Shakeproof Lockwasher (3 Mt. 22-6874)		S-91160)
113-33	4-40 x 1/4 x 7/32 Hex Hd. Mach. Screw - Cadmium	*30-329	Decoration - Trim Strip - Right Side (Part of
	Internal Shakeproof Lockwasher	*20.220	S-91160)
113-121	6-32 x 7/32 Phillips Rd. Hd. Mach. Screw - N.P.	*30-330	Decoration - Overlay, Radio - Trans - Oceanic (National Weather Service Band -
110 100	22-3902 & 57-6867)		Zenith Trans - Oceanic)
113-123	4-40 x 3/16 Phillips Rd. Hd. Mach. Screw	30-335	Decoration - Lower Cover Plate (Part of S-91089)
	Cadmium - Internal Shakeproof Lockwasher	36-710	Handle (Portable Radio)
114-39	(Mts. 12-3515) 8-32 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw -	39-75B	Earphone (Part of S-90896)
114-37	Cadmium (1 Uded on S-78743, 4 Used on	43-965	Antenna Pivot Housing
	S-90975, 2 Used on S-79040 & 57-6678 &	43-1040	Battery Container (2 Required)
	2 join S-78743 & S-80653) (11 Required)	43-1099	Battery Container
*121-687	Transistor - FM/AM Amplifier & Oscillator-	*44-84	Jack (Tuner or Phono) (For 58-214)
	R.F. Oscillator & Mixer (2 Required)	46-6251	Sprocket Knob (2 Used on S-78786)
*121-871	Transistor, AM/RF	46-6361	Control Knob - Volume - Tone - Manual Gain
*121-872	Transistor, AM Mixer, AM-FM 1st. IF, AM-FM		(3 Required)
	2nd, IF, AM Oscillator, AM-FM 3 RD. IF	46-6828	Control Knob - B.F.O.
	& BFO (6 Required)	46-7382	Tuning Knob
125-94	Rubber Grommet (3 Used on 22-6784)	*46-9437	Band Selector Control Knob
126-857	Coil Shield (2 Required)	49-1143	4" x 6" PM Speaker 6-32 x 5/16 Hex Nut – Nickel (Part of S-85392)
126-1027	Coil Shield (Part of S-78649)	54-12	
*126-1331	Coil Shield (Part of S-78649)	54-347	6-32 'Keps' Nut (11 Mt. 112-1438, 4 Mt. 112-2066
149-74	Iron Core (1 Part of ea. S-45000) (2 Required)	54-412	& 4 Mt. 49-1143) Speed Nut (4 Part of S-91160)
149-211	Iron Core (25 Required)	54-853	1/4-32 x 3/8 Hex Nut (Used on 44-84)
149-311	Iron Core Sleeve (2 Required)	*54-789	Palnut (5 Mt. S-78792)
149-316	Iron Core & Pring (3 Required)	54-794	Tinnerman Speed Nut (3 Mt. 57-6658)
S-45000	Series Antenna Coupling Coil Assem. (2 Req.) FM Tuning Coil Assem. (3 Required)	54-817	Tinnerman Speed Nut (8 Mt. 192-418)
S-58095 S-58142	Pulley & Bushing Assem.	56-557	Upper Door Pin (2 Required)
S-58179	Drive Cord & Eyelet Assem Gang (2 Req.)	56-596	Lower Door Pin
S-64842	FM Tuner Driver Shaft Assembly	56-605	Lower Door Pin
*S-78076	Oscillator Coil Assem. (B.C. & L.W.)	57-6649	Name Plate (Part of S-85394)
S-78077	Antenna Coil Assem. (2-4 MHz) S.W. 1 Ant. Coil	57-6657	Cabinet Top
*S-78078	Antenna Coil Assem. (4-9 MHz) S.W. 2 Ant. Coil	57-6658	Base Plate, Cabinet
*S-78079	Antenna Coil Assem. (9.4-10 MHz) 31M	57-6679	Chart Light & Tuning Escutcheon (Part of S-78792)
*S-78080	Antenna Coil Assem. (11.4-12.2 MHz) 25M	57-6708	Speaker Escutcheon
*S-78081	Antenna Coil Assem. (14.7-15.7 MHz) 19M		857-181 Control Overlay
*S-78082	Antenna Coil Assem. (17.1-18.5 MHz) 16M		883-91 Grille Backing Strip
*S-78083	Antenna Coil Assem. (20.7-22.4 MHz) 13M	£7. (001	938-16 Grille
*S-78084	Oscillator Coil Assem. (2-4 MHz) S.W. 1 Osc. Coil	57-6801	Name Plate - Trans-Oceanic Battery Panel (Part of S-90896)
*S-78085	Oscillator Coil Assem. (4-9 MHz) S.W. 2 Osc. Coil	57-6971 57-6994	Cord Retaining Plate (2 Part of S-90896)
*S-78086	Oscillator Coil Assem. (9.4-10 MHz)	57-7330	Chassis Support Plate
*S-78087	Oscillator Coil Assem. (11.4-12.2 MHz)	57-7769	Selector Knob Background Plate
*S-78088	Oscillator Coil Assem. (14.7-15.7)	58-214	Plug - Jack (Used on 44-84)
*S-78089 *S-78090	Oscillator Coil Assem. (17.1-18.5 MHz) Oscillator Coil Assem. (20.7-22.4 MHz)	58-316	A.C. Input Plug (Part of S-85392)
*S-78090 *S-78091	Mixer Coil Assem. (2-4 MHz) S.W. 1 Mixer Coil	*59-1048	Dial Slide
*S-78091	Mixer Coil Assem. (4-9 MHz) S.W. 2 Mixer Coil	69-262	8-32 x 1/2 Phillips Rd. Hd. Mach. Screw-Stat.
*S-78092	Mixer Coil Assem. (9-4-10 MHz)		Bronze (3 Used on S-85392)
*S-78094	Mixer Coil Assem. (11.4-12.2 MHz)	*73-123	8-32 x 1/4 Allen Hd. Set Screw - Cuppoint
*S-78095	Mixer Coil Assem. (14.7-15.7 MHz)		(Part of 46-9437)
*S-78096	Mixer Coil Assem. (17.1-18.5 MHz)	76-1770	Pivot Shaft (Part of S-78773)
*S-78097	Mixer Coil Assem. (20.7-22.4 MHz)	78-1101	Three Contact Battery Socket (Cabinet
*S-78649	Coil, Bracket & Shield Assem.	70 1001	Back Assem.)
*S-78672	Oscillator Coil & Wire Assem. (B.C. & L.W.)	78-1834	Pilot Light Socket & Wire (Part of S-78772)
*S-78676	Oscillator Coil & Wire Assem. (11.4-12.2 MHz)	80-1091	Dial Cord Tension Spring
*S-78677	Oscillator Coil & Wire Assem. (14.7-15.7 MHz)	80-1998 80-2010	Contact Spring (Part of S-85392) Handle Spring (2 Required)
*S-78678	Oscillator Coil & Wire Assem. (17.1-18.5 MHz)	80-2010 80-2047	Contact Spring (Part of S-78778)
*S-78679	Oscillator Coil & Wire Assem. (20.7-22.4 MHz)	80-2048	Contact Spring (Part of S-78778) Contact Spring (Part of S-78778 & S-78779)
*S-78689 *S-78691	Mixer Coil & Wire Assem. (B.C. & L.W.) Mixer Coil & Wire Assem. (4-9 MHz)	00-2040	(2 Required)
*S-78691 *S-78693	Mixer Coil & Wire Assem. (4-9 MHz) Mixer Coil & Wire Assem. (11.4-12.2 MHz)	80-2078	Spring (Part of S-78777)
*S-78694	Mixer Coil & Wire Assem. (11.4-12.2 M112) Mixer Coil & Wire Assem. (14.7-15.7 MHz)	*80-2159	Spring - Lower Door (Part of S-85389)
*S-78724	R.F. Housing Assembly	80-2165	Lower Door Spring (Part of S-91160)
*S-78743	Coil Mtg. Bracket & Clip Assembly	83-2785	Rubber Strip (Cabinet Back)
*S-79040	Tuner Housing Assembly	83-3024	Rubber Strip (Cabinet Assembly)
*S-79780	Coil Mtg. Bracket Assembly	*83-4311	Cushioning Material 12 x 12 (Cabinet Assembly)
*S-80653	Bracket & Terminal Strip Assembly	83-6538	Trim Strip (Used on 57-6658)
*S-90975	RF Shelf Bracket & Terminal Strip Assem.	83-6543	Time Indicator Strip
	arts Not Previously Used.		
Denotes Pa	ares not rioriously oscu.		

PART NO.	DESCRIPTION	PART NO.		DESCRIPTION
83-6544	Taim Stain (Boat of C 79704)	100 410	2112	
	Trim Strip (Part of S-78794)	192-418	Dial Crysta	
83-6545	Trim Strip (Part of S-78794)	199-466	Antenna Sl	
83-6574 83-6575	Tuning Escutcheon Trim Strip (Part of S-78792) Chart Light Trim Strip (Part of S-78791)	*202-3433		Chart Book
83-7000	Lower Door Trim Strip (Part of S-78791)	*202-3442	Instruction	
83-7006	Protective Strip (Used on S-85392)	*202-3443		ons Booklet, Operating
83-7420	Slide Switch Strip (Part of S-80963)	*202-3444		nual Instruction Book (RD7000Y only)
*83-7628	Grille Backing Strip (Cabinet Assem.)	*202-3658		Guide Supplement. (RD7000Y-1 only)
*83-7629	Protective Cover Strip (Cabinet Assem.)	*202-3659	Service Mar	
*83-8290	Insulating Strip Without Perforation	*203-1399	Registration	
03 0270	(Cabinet Assembly)	220-142 S-78766		shioning Material (3 Required)
85-1043	Slide Switch (Part of S-85392)			vel Assembly (2 Required)
86-221	Terminal (Used on Black Wire)	S-78772		Door & Socket Assembly (Part of
86-232	Spade Terminal (2 Required)	S-78773	S-78773)	0 T
93-799	Brass Washer (2 Part of S-85392)	5-70773	(Part of S-	& Tuning Escutcheon Assembly
93-1289	3/16 x 7/16 x 1/32 Thick Fibre Washer (Joins	S-78777		Sleeve Assembly
	15-108 & 78-1101)	S-78778		ring & Strip Assembly – R.H.
93-1794	.082 x 1/4 x .015 Thick Brass Washer (1 Part	S-78779		ring & Strip Assembly – K.II.
	of ea. S-78766) (2 Req.)	S-78786	Bracket & S	Stud Assembly (2 Required)
93-1818	Shoulder Washer (3 Joins S-80963 & S-85392)	S-78791		& Trim Strip Assembly
*93-1863	Vinyl Washer (Part of 46-9437)	S-78792		tcheon & Trim Strip Assembly
93-1884	Spring Washer (Part of S-91089)	S-78794		r & Trim Assembly
*93-1892	Finish Washer (Used on Jack & Plug)	S-80527		ng & Crystal Assem. (Trans-Oceanic -
*94-1549	Bushing (Cover Panel) (Part of S-90896)	5 00327	Zone Time	e)
96-696	Pivot Leg (1 Part of ea. S-78766)	S-80963	Plate & Stu	
97-812	Stud (Part of S-78786)	*S-85389		d Plate Assem. – R.H.
*97-832	Stud (Part of S-91089)	*S-85390		d Plate Assem. – L.H.
*97-851	Shoulder Stud (Part of S-85389)	*S-85392	Cabinet Bac	The state of the s
100-218	Chart Light Lamp - GE No. 123	*S-85394		r & Trim Assem.
*101-4976	Transistor Layout & Patent Label	*S-90896	Battery Co	
*110-607	Grille Cloth (Part of S-85392)	*S-91088		r & Trim Assem. (Control Cover &
112-320	6-20 x 3/8 Pan Hd. Self-Tap. Screw-Stat. Bronze	571000	Decoration	
	(Joins 43-965 & 1=19)	*S-91089		Assem. (Compass Circular)
112-1124	4-24 x 11/32 Special Fillister Hd. Self-Tap.	*S-91160		et & Trim Assem.
	Screw - Black Zinc Plate (4 Used on			
2 2 20	S-78786)		POWER	R SUPPLY COMPONENTS
112-1376	4-24 x 3/8 Phillips Pan Hd. Self-Tap.	22 4617		
	Screw-Stat. Bronze (2 Mt. S-85392)	22-4617 *22-6316	.01 MF	1.001
112-1438	6-32 x 5/16 Special Hd. Mach. Screw (4 used	*23-38		ectrolytic – 1 Section – 500V.
	on 57-6708, 5 Mt. S-85389 & 6Mt. S-85390)	63-1708		(RD7000Y-1 only)
112-1714	6-32 x 3/16 Phillips Pan Hd. Mach. Screw -	63-1932		esistor – 1/2 W. 10%
	Cadmium (4 Join 83-6544 & S-78794)	79-174-12		n Resistor – 1/2 W. 10%
112-1865	6-20 x 7/16 Phillips Pan Hd. Self-Tap. Screw -	83-3672		eving – Yellow – 1-1/2" ninal Strip (Part of S-80964)
440 405	Cadmium (1 Mts. 500MDR70)	85-818		h (Part Of S-80964)
112-1865	6-20 x 7/16 Phillips Pan Hd. Self-Tap. Screw -	*85-1393		aker, Thermal, Self-Setting
112 2022	Cadmium (1 Mts. 500MDR70)	00 1373	(RD7000)	
112-2032	6-20 x 7/16 Special Hd. Self-Tap. Screw-Stat.	86-512		Contacts (Wire Retaining Pin)
112-2038	Bronze (1 Mts. Ea. 166-193) (4 Required) 6-32 x 5/32 Special Hd. Mach. Screw-Stat. Bronze	95-2671	Power Tran	
112-2036	(4 Mt. 57-6658)	112-1438		"Special Hd. Mach. Screw (Mts.
112-2065	4-24 x 1/4 Phillips Fl. Hd. Self-Tap. Screw-		95-2671)	of committee transfer between (1120).
112-2003	Chrome (4 Mt. S-78774)	112-2072	6-20 x 3/8"	Ph. Truss Hd. Self-Tap. Screw-
112-2066	6-32 x 5/16 Special Hd. Mach. Screw - Chrome			ze (1 Mts. 95-2671 & S-80964,
112-2000	(4 Mt. 36-710)		2 Used On	83-3672) (4 Req.)
112-2071	4-24 x 1/4 Phillips Pan Hd. Self-Tap. Screw -	205-51	Silicone Gre	ease
112 2071	Stat. Bronze (1 Used on 80-1091 & 2 Used	212-76	Silicon Rec	tifier (2 Req.)
	on 83-7006) (3 Required)	S-80964	Switch Brac	cket & Terminal Strip Assem.
112-2072	6-20 x 3/8 Phillips Truss Hd. Self-Tap. Screw -			
	Stat. Bronze (1 Mts. ea. 57-6994, S-85392		"OPTIC	ONAL AT EXTRA COST"
	& 3 Part of S-80963) (6 Required)	S-75893	Swivel Base	Assam
112-2096	6-20 x 3/8 Phillips Fl. Hd. Self-Tap. Screw -	3-73893	16-3527	Carton
	Cadmium (2 Mt. ea. S-78766) (4 Required)		57-6620	Base Support (Ring)
112-2097	6-20 x 1/2 Phillips Pan Hd. Self-Tap. Screw -		80-2034	Tension Spring (2 Req.)
	Cadmium (3 Mt. 500MDR70)		93-1682	Spring Washer
*112-2122	4-24 x 1/4 Special Fl. Trim Hd. Screw - Cadmium		93-1790	Base Washer
	(2 Mt. S-91088 & 6 Mt. S-91160) (8 Required)		96-694	Leg - Left (2 Req.)
114-811	6-20 x 1/4 x 1/4 Hex Hd. Self-Tap. Screw-Stat.		96-695	Leg - Right (2 Req.)
	Bronze (2 Mt. ea. S-78786)		112-2041	6-18 x 1/4 Phillips Pan Hd. Self-
114-813	6-20 x 3/8 Hex Hd. Self-Tap. Screw-Stat. Bronze		112-2041	Tap. Screw – N.P. (2 Mt. Ea.
	(4 Mt. S-78777)			Leg Support)
114-1095	Special Hex Hd. Screw (Part of S-85392)		112-2043	8-32 x 1/4 Phillips Fl. Hd. Mach.
*166-105	Bumper (4 Required)		112-2043	Screw – N.P. (3 Mt. S-78811)
166-193	Cabinet Foot (4 Required)		112-2109	6-32 x 3/8 Phillips Fl. Hd. Mach.
188-140	Retaining Ring (Part of S-90896)		112 2107	Screw – Spec. – N.P. (1 Used
188-155	Knob Clamping Ring (Part of 46-7382)			On Ea. 96-694 & 96-695) (4 Req.)
188-168	Retaining Ring (1 Joins ea.46-6251 & S-78786)		188-140	Retaining Ring
	(2 Required)		199-464	Spacer Sleeve (1 Used On Ea.
188-441	Knob Clamping Ring (Part of 46-6361 or 46-6828)			96-694 & 96-695) (4 Req.)
189-372	Plastic Bag		202-3070	Instruction Sheet
189-377	Envelope (For 57-6801)		S-78811	Swivel Base Plate Assem. (Top)
*Denotes Par	ts Not Previously Used.			

^{*}Denotes Parts Not Previously Used.

NO.	TRANSISTOR CHART
Q1	121-692 WB RF
02	121-692 WB MIXER
03	121-692 WB OSCILLATOR
04	121-687 RF TRANSISTOR (FM)
Q5	121-687 OSCILLATOR MIXER (FM)
Q101	121-871 RF (AM)
0102	121-872 MIXER (AM)
Q103	121-872 OSCILLATOR (AM)
0201	121-872 1st. IF TRANSISTOR (AM-FM)
0202	121-872 2nd IF TRANSISTOR (AM-FM)
0203	121-872 3rd IF TRANSISTOR (AM-FM)
0204	121-872 BFO
0401	121-430 1st. AUDIO
0402	121-430 PRE-DRIVER
Q403	121-441 DRIVER
Q404	121-678 OUTPUT (NPN))
Q405	121-678 OUTPUT (NPN) 121-679 OUTPUT (PNP) }MATCHED PAIR
Q501	121-701 VOLTAGE REGULATOR
NO.	TRIMMER CHART
C112	BROADCAST ANTENNA TRIMMER
C113	LONG WAVE ANTENNA TRIMMER
C114 (A)	SW2 ANTENNA TRIMMER
C114 (B)	SW1 ANTENNA TRIMMER
C114 (C)	SW2 MIXER TRIMMER
C114 (D)	SW1 MIXER TRIMMER
C114 (E)	SW2 OSCILLATOR TRIMMER
C114 (F)	SW1 OSCILLATOR TRIMMER
C119 (A)	BROADCAST MIXER TRIMMER
C119 (B)	LONG WAVE MIXER TRIMMER
C119 (C)	BROADCAST OSCILLATOR TRIMMER
C119 (D)	LONG WAVE OSCILLATOR TRIMMER
C119 (E)	LONG WAVE OSCILLATOR PADDER
C130 C136	VHF OSCILLATOR TRIMMER
C130	BROADCAST OSCILLATOR PADDER

NO.	COIL CHART	
L102	ANTENNA (LW AND BC)	
L106	13M ANTENNA COIL (TOP)	
L107	16M ANTENNA COIL (BOTTO	OM)
L108	19M ANTENNA COIL (TOP)	
L109	19M ANTENNA COIL (10P) 25M ANTENNA COIL (BOTTO 31M ANTENNA COIL (TOP)	OM)
L110		
L112	SW2 ANTENNA COIL (BOTTO	OM)
L113	SW1 ANTENNA COIL (TOP)	
L114	13M MIXER COIL (TOP)	
L115	16M MIXER COIL (TOP)	
L116	19M MIXER COIL (TOP)	
L117	25M MIXER COIL (TOP)	
L118	31M MIXER COIL (TOP)	
L119	SW2 MIXER COIL (TOP)	
L120	SW1 MIXER COIL (TOP)	
L122A	BC MIXER COIL (TOP)	
L122B	LW MIXER COIL (BOTTO	OM)
L123	13M OSCILLATOR COIL (BOTTO	OM)
L124	BC MIXER COIL (TOP) LW MIXER COIL (BOTTO) 13M OSCILLATOR COIL (BOTTO) 16M OSCILLATOR COIL (BOTTO) 10M OSCILLATOR COIL (BOTTO)	OM)
L125	LW MIXER COIL (BOTTO 13M OSCILLATOR COIL (BOTTO 16M OSCILLATOR COIL (BOTTO 19M OSCILLATOR COIL (BOTTO 25M OSCILLATOR COIL (BOTTO 31M OSCILLATOR COIL (BOTTO SW2 OSCILLATOR COIL (BOTTO SW1 OSCILLATOR COIL (BOTTO LATOR COIL (BOTTO LATOR COIL (BOTTO LATOR COIL (BOTTO LW OSCILLATOR COIL (BOTTO LW OSCILLATOR COIL (TOP) 2nd IF TRANSFORMER PRIMARY (TOP)	JIVI)
L126	25M OSCILLATOR COIL (BOTTO	21VI)
L127 L128	SIM OSCILLATOR COIL (BOTTO	204)
L129	SW2 OSCILLATOR COIL (BOTTO	2017
L130A	PC OCCULATOR COLL (BOTTO	2017
L130B	I W OSCILLATOR COIL (TOP)	SIVI /
L201	2nd IF TRANSFORMER PRIMARY (TOP)	1
L202	2nd IF TRANSFORMER SECONDARY (TOP)	OTTOM) \ T203
L204		
L205	3rd IF TRANSFORMER SECONDARY (BO	OTTOM) \ T206
L206	3rd IF TRANSFORMER PRIMARY (TOP)	T207
L207	3rd IE TRANSEORMER SECONDARY (B)	OTTOM) } 1207
L209	RATIO DETECTOR TRANSFORMER PRI	(BOTTOM))Tage
L210	RATIO DETECTOR TRANSFORMER (TO)P) /1208
NO.	TRANSFORMER CHART	
T1	RF INPUT TRANSFORMER (WB)	
T2	RF OUTPUT TRANSFORMER (WB)	
T3	10.7 MHZ IF TRANSFORMER (WB)	
T4	OSCILLATOR TRANSFORMER (WB)	
T5	1st IF TRANSFORMER (FM)	
T201	1st IF PRIMARY (AM)	
T202	1st IF SECONDARY (AM)	
T203	2nd IF TRANSFORMER (FM)	
T204	2nd IF TRANSFORMER PRIMARY (AM)	
T205	2nd IF TRANSFORMER SECONDARY (A	IM)
T206	3rd IF TRANSFORMER (FM)	
T207	3rd IF TRANSFORMER (AM)	4)
T208	RATIO DETECTOR TRANSFORMER (FN	1)
T209 T201	4th IF TRANSFORMER PRIMARY (AM) BFO TRANSFORMER	
1201	DI O THANSFORMEN	

